

Aloe Vera 200x Powder ORG

DEFINITION

A pure extract of organically farmed *Aloe barbadensis* Leaf, processed through an advanced freeze drying process. This process yields a high purity Aloe Vera concentrate of 200:1. When mixed with 99.5% water it will be re-constituted to 100% Aloe Vera Leaf Juice.

FULL INCI

Aloe barbadensis (Aloe Vera) Leaf Juice

SPECIFICATIONS

Appearance: off white, free flowing powder
Odor: characteristic
Storage: store tightly sealed, cool and dry
Shelf Life: 3 years when properly stored and handled properly
Solubility: water
pH: 3.5 to 5.0 (reconstituted 1:199 w/w)

USAGE

To reconstitute: add 1 part (0.5%) Aloe Vera 200X to 199 parts (99.5%) water. Bring to 170F and hold for 20 minutes, adding adequate preservation of choice.

To use in formulation: add 0.5% (calculated based on the w/w (water weight) of your formulation only), to the water phase, hold for 20 minutes before proceeding with water phase instructions. This will give you 100% Aloe Vera Leaf Juice instead of water.

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APPLICATIONS

- shampoos, including high use treatment products
- shower gels
- bubble baths
- treatment products
- skin care products
- bath and body products
- baby care products
- pet care products

GENERAL ATTRIBUTES

First: the polysaccharides act as moisturizers, hydrating the skin.

Second: aloe is absorbed into the skin and stimulates the fibroblasts to replicate themselves faster and it is these cells that produce the collagen and elastin fibers, so the skin becomes more elastic and less wrinkled.

Third: aloe makes the surface of the skin smoother because of its cohesive effect on the superficial flaking epidermal cells, binding them.

Fourth: aloe possesses the ability to interfere with the enzyme that produces melanin deposits in the skin, helping to prevent the formation of 'liver spots', which tend to develop in aging skin. When used regularly it may even help to eliminate existing spots.

ALOE VERA is an IMPORTANT SOURCE of many KEY NUTRIENTS ...

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- **VITAMINS::** rich in all vitamins excluding Vitamin D, especially the antioxidant Vitamins A (beta-carotene), C and E and even contains a trace of Vitamin B12, one of the very few plant sources of this vitamin.
- **ENZYMES::** several different types of these biochemical catalysts when taken orally aid digestion by breaking down fat and sugars. One in particular, Bradykinase, helps to reduce excessive inflammation when applied to the skin topically and therefore reduces pain, whereas others help digest any dead tissues in wounds. Lipases and proteases which break down foods and aid digestion are present.
- **SUGARS::** these are derived from the mucilage layer of the plant which surrounds the inner gel. and are known as mucopolysaccharides, which enhance the immune system and help to detoxify. Aloe Vera contains both mono and polysaccharides, but the most important are the long chain sugars involving glucose and mannose or the gluco-mannans which I have already referred to. These sugars are ingested whole from the gut, not broken down like other sugars, and appear in the bloodstream in exactly the same form. This process is known as pinocytosis. Once in the blood stream they are able to exert their immuno-regulating effect. Some of these polysaccharides are not absorbed but stick to certain cells lining the gut and form a barrier preventing absorption of unwanted material so helping to prevent a "leaking" gut syndrome. In topical preparations the sugars are also the main moisturizers.
- **ANTHRAQUINONES::** there are twelve of these Phenolic compounds which are found exclusively in the plant sap. In small quantities, when they do not exert their purgative effect, they aid absorption from the gastro-intestinal tract and have anti-microbial and pain killing effects. In some commercial health drinks, the anthraquinones are removed because of the fear of producing abdominal pain or diarrhea, but I feel that they are actually beneficial in small amounts. The important ones, Aloin and Emodin, act as painkillers. They also function as anti-bacterials and anti-virals.

State of the Art Ingredients • Fast Friendly Service

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- **LIGNANS::** this in itself is an inert substance but when included in topical preparations it endows Aloe Vera with a singular penetrative effect so the other ingredients are absorbed into the skin.
- **SAPONINS::** these soapy substances form about 3% of the Aloe Vera gel and are capable of cleansing, having antiseptic properties. These act powerfully as anti-microbials against bacteria, viruses, fungi and yeasts.
- **FATTY ACIDS::** cholesterol, Campesterol, b. Sisosterol and Lupeol. These four plant steroids are important anti-inflammatory agents.
- **SALICYLIC ACID::** an aspirin-like compound possessing anti-inflammatory and anti-bacterial properties.
- **AMINO ACIDS::** the body needs 22 amino acids – the gel provides 20 of these. More importantly, it provides 7 out of the 8 essential amino acids which the body cannot synthesize.

NOTE: Ingredients To Die For is a supplier of cosmetic ingredients. All ingredients offered by Ingredients To Die For are intended for topical use only. **NOT FOR CONSUMPTION!!**